Amendment to Claims

This listing of claims will replace all prior versions, and listing, of claims in this application:

Listing of Claims

 (original) A method of storing and dispensing a first gas for use in a process and receiving and storing a second gas, said method comprising the steps of storing the first gas in the first compartment of a container having a first compartment and a second compartment separated by a movable gas impermeable partition,

dispensing the first gas from the first compartment via a gas outlet of the container and providing the first gas to a processing apparatus for carrying out a process involving the first gas;

recovering gas from said processing apparatus; and
feeding at least a portion of said recovered gas to the second compartment
via a gas inlet of the container to provide at least a portion of the second gas, whereby a
volume of the second gas displaces a volume of the first gas by movement of the partition to
enlarge the second compartment relative to the first compartment.

- 2. (currently amended) A<u>The</u> method as claimed in of Claim 1, wherein the container has a rigid housing with a flexible internal membrane dividing the housing into the first and second compartments.
- 3. (currently amended) A<u>The</u> method as claimed in of Claim 1 or Claim 2, wherein at least a portion of the second gas is a component of the first gas.
- 4. (currently amended) A<u>The</u> method as claimed in any one of the preceding elaims of Claim 1, which further comprises the steps of analysing the recovered gas and feeding to the second compartment at least a portion of the recovered gas that satisfies at least one predetermined criterion determined by said analysis.

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- 5. (currently amended) A<u>The</u> method as claimed in any one of the preceding elaims of Claim 1, wherein the pressure of gas in the second compartment is maintained above 0.1 MPa (1 atmosphere).
- 6. (currently amended) A<u>The</u> method as claimed in any one of the preceding elaims of Claim 1, wherein the first gas comprises a gas selected from the group consisting of noble gases, a-noble gas isotopes, an-isotopes of oxygen orand an-isotopes of carbon dioxide.
- 7. (currently amended) A<u>The</u> method as claimed in any one of the preceding claims of Claim 1, wherein the first gas comprises xenon.
- 8. (currently amended) A<u>The</u> method as claimed in of Claim 7, wherein the first gas comprises xenon in an amount of at least about 50% by volume.
- 9. (currently amended) A<u>The</u> method as claimed in of Claim 7-or Claim 8, wherein the first gas further comprises oxygen.
- 10. (currently amended) A<u>The</u> method as claimed in of Claim 9, wherein the xenon and oxygen are the sole components of the first gas.
- 11. (currently amended) A<u>The</u> method as claimed in any one of claims of Claim 7to 10, wherein the second gas comprises xenon.
- 12. (currently amended) A<u>The</u> method as claimed in any one of the preceding elaims of Claim 1, wherein the processing apparatus is selected from the group consisting of a-cardiopulmonary bypass oxygenators or an artificial ventilators.
- 13. (currently amended) Use of a A container for storing and dispensing a gas for use in a process and receiving and storing a gas recovered from the process, wherein the container comprises a first compartment having a gas outlet and a second compartment having a gas inlet, said first and second compartments separated by a gas impermeable

partition, wherein said partition is moveable such as to enable the relative volumes of the first and second compartment to be varied.

- 14. (currently amended) A use as claimed in The container of Claim 13, wherein the container has a rigid housing and the gas impermeable partition is a flexible membrane dividing the housing into the first and second compartments..
- 15. (currently amended) A<u>n apparatus</u> for storing and dispensing a gas for use in a process and receiving and storing a gas recovered from the process, said apparatus comprising
 - a container, which container comprises
 - a first compartment for containing a first gas and having a gas outlet; a second compartment for containing a second gas and having a gas inlet; and
 - a gas impermeable partition which separates the first compartment and the second compartment and is moveable such as to enable the relative volumes of the first and second compartments to be varied;
 - a processing apparatus for carrying out a process involving a gas;
 - a dispensing conduit for feeding gas from the gas outlet to the processing apparatus;
 - a recovery conduit for feeding gas from the processing apparatus to the gas inlet; and
- a pumping means for pumping the gas from the processing apparatus into the second compartment.
- 16. (currently amended) An<u>The</u> apparatus as claimed in of Claim 15, wherein the container has a rigid housing with a flexible internal membrane dividing the housing into the first and second compartments..
- 17. (currently amended) AnThe apparatus as claimed in of Claim 15 or Claim 16, wherein the processing apparatus is an artificial ventilator.
- 18. (currently amended) An<u>The</u> apparatus as claimed in of Claim 15 or Claim 16, wherein the processing apparatus is a cardiopulmonary bypass oxygenator.